

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (currently amended): A method for enabling recovery of lost payload blocks, the method comprising the steps of:

(a) transmitting a sequence of packets from a source node to a destination node, each packet in said sequence including a sequence identifier and having a plurality of payload blocks;

(b) determining whether at least one of the plurality of said payload blocks within a particular packet is lost in said transmission;

(c) storing other payload blocks that are successfully received within said particular packet in a storage medium for subsequent retrieval;

(d) subsequently transmitting a request for retransmission of said particular packet containing said lost payload block to said source node, as identified by the sequence identifier; and,

(e) combining said stored payload blocks ~~that were successfully received only with a retransmission of~~ said lost payload block of a retransmitted packet retrieved from said request for transmission in sequential order to form a complete packet, wherein when the retransmission of said particular packet contains a lost payload block, [[and]] or transmitting [[a]] another request for retransmission of said

particular packet containing said lost payload block to the source node only when a complete packet cannot be formed ~~by the combining of the stored payload blocks in step (c) that were successfully received and only said lost payload block that has been re-transmitted.~~

Claim 2 (original): The method of claim 1, further comprising the step of monitoring link quality associated with the at least one of the plurality of said payload blocks.

Claim 3 (previously presented): The method of claim 1, further comprising the step of identifying erroneously received payload blocks during said transmission.

Claim 4 (original): The method of claim 1, wherein said step (b) further comprises the step of performing error-correction to recover said lost payload blocks.

Claim 5 (original): The method of claim 4, wherein if said error-correction fails, performing said steps (c) through (e).

Claim 6 (original): The method of claim 1, wherein said step (d) further

comprises the step of retrieving said lost payload block from said subsequent transmission.

Claim 7 (original): The method of claim 1, wherein said step (d) further comprises the steps of:

determining whether the payload block corresponding to said lost payload from said subsequent transmission is received successfully;

if yes, performing said step (e); and,

if no, requesting for retransmission of said particular packet containing said lost payload block again.

Claim 8 (currently amended): A method for enabling recovery of lost payload blocks, the method comprising the steps of:

(a) receiving a sequence of encoded signals by a destination node from a source node, the encoded signals including a sequence identifier;

(b) decoding each received signal in accordance with a particular decoding format to generate a plurality of decoded frames, each decoded frame having a plurality of payload blocks;

(c) examining the plurality of decoded frames to identify erroneously received payload blocks within a particular decoded frame;

(d) storing other payload blocks that are successfully received within said

particular frame in a storage medium for subsequent ~~in step (d) that were successfully received and the erroneously received payload blocks that were successfully~~ retrieval;

(e) subsequently transmitting a request for retransmission of said particular frame ~~with said erroneously received blocks; [[and,]]~~

(f) combining in sequential order said stored payload blocks ~~that were successfully received only with a retransmission of correctly received erroneously received~~ payload blocks of a retransmitted frame, which were previously erroneously received that were retransmitted in sequential order to complete a frame, wherein when the retransmission of said particular frame contains at least one erroneously received payload block, and, or transmitting ~~[[a]]~~ another request for retransmission of said particular frame to the source node only when a complete frame cannot be formed ~~by the combining of the stored payload blocks re-transmitted.~~

Claim 9 (original): The method of claim 8, further comprising the step of demodulating the encoded signals in accordance with a particular demodulation format to generate the plurality of said decoded frames.

Claim 10 (previously presented): The method of claim 9, wherein the demodulation format is specified by the IEEE 802.11 standard.

Claim 11 (original): The method of claim 8, wherein encoded signals include employing a Reed-Solomon block coder.

Claim 12 (original): The method of claim 8, further comprising the step of performing error-correction to recover said erroneously received payload blocks.

Claim 13 (original): The method of claim 8, wherein if said error-correction fails, performing said steps (d) through (f).

Claim 14 (original): The method of claim 8, wherein said step (e) further comprises the steps of:

determining whether the payload block corresponding to said lost payload from said subsequent transmission is received successfully;

if yes, performing said step (f); and,

if no, requesting for retransmission of said particular packet containing said lost payload block again.

Claim 15 (current amended): An apparatus for enabling recovery of lost payload blocks in a packet switch network in which a sequence of packets is transmitted from a source node to a destination node, each packet in said

sequence containing a number of payload blocks, comprising:

a memory;

a processor;

a set of instructions stored in said memory and executed by said processor, said processor configured to:

determine whether at least one of the plurality of said payload blocks within a particular packet is lost in said transmission the packet, the packet including a sequence identifier;

store other payload blocks that are successfully received within said particular packet in a storage medium for subsequent retrieval;

subsequently transmit a request for retransmission of said particular packet containing said lost payload block to said source node; and,

combine said stored payload blocks only with said lost payload block of a retransmitted packet ~~retrieved from said subsequent transmission~~ in sequential order, wherein ~~when the retransmission of said particular packet contains a lost payload block, or transmit another~~ transmitting a request for retransmission of said particular packet containing said lost payload block to the source node only when a complete packet cannot be formed ~~by the combining of the stored payload blocks and the re-transmitted payload blocks of said particular packet.~~

Claim 16 (original): The apparatus of claim 15, wherein the apparatus is

included within a telecommunication receiver of a wireless network.

Claim 17 (currently amended): A system for enabling recovery of lost payload blocks in a packet switch network, comprising:

a demodulator configured to receive and demodulate a modulated signal to generate a sequence of demodulated packets, each packet in said sequence having a predetermined number of payload blocks and further including a sequence identifier and;

a decoder operatively coupled to said demodulator for decoding said demodulated packets into a plurality of decoded frames;

a processor coupled to said decoder for examining the plurality of decoded frames to identify erroneously received payload blocks within a particular decoded frame;

a storage means for storing other payload blocks that are successfully received within a particular frame for subsequent retrieval;

means for subsequently transmitting a request for ~~[[the]]~~ retransmission of said particular frame ~~having said erroneously received blocks; [[and,]]~~

means for combining in sequential order said stored payload blocks only with correctly received ~~said erroneously received~~ payload block blocks of a retransmitted frame which, were previously erroneously received ~~retrieved from said subsequent transmission in sequential order~~ to complete a frame, wherein

~~when the retransmission of said particular frame contains at least one erroneously received payload block, and~~

means for transmitting a request for retransmission to the source node only when a complete frame cannot be formed by said means for combining by the combining of the stored payload blocks and the re-transmitted payload blocks of said particular frame.

Claim 18 (original): The system of claim 17, further comprising an error-correction means for performing error-correction to recover said erroneously received payload blocks.

Claim 19 (original): The method of claim 17, wherein the demodulation format is specified by the IEEE 802.11 standard.

Claim 20 (previously presented): A method for enabling recovery of lost payload blocks, the method comprising the steps of:

receiving a data stream comprising a sequence of packets each packet containing a plurality of payload blocks and further including a sequence identifier;

retaining each packet containing correctable payload blocks,

determining whether packets containing non-correctable payload blocks have previously been retained; and

U.S. Serial No. 09/918,163
Attorney Docket No. US 010342

requesting retransmission of the packets containing non-correctable, non-previously retained payload blocks.